

# **CDC Adolescent Vaccination Activities**

**National Vaccine Advisory Committee  
Meeting**

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**DEPARTMENT OF HEALTH AND HUMAN SERVICES  
CENTERS FOR DISEASE CONTROL AND PREVENTION**



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# Overview

- **CDC Adolescent Vaccination Implementation Working Group**
- **CDC Adolescent Vaccination Implementation Plan**

# **CDC Adolescent Vaccination Implementation WG (AVIWG)**

- **Formed April 2006**
- **Representatives from each center/division that has an interest in or is conducting research related to adolescent vaccination**

## **AVIWG Members**

- **National Center for Immunization and Respiratory Diseases (NCIRD)**
- **National Center for HIV, Hepatitis, STD, and TB Prevention (NCHHSTP)**
- **National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP)**
- **Immunization Safety Office (ISO)**

# Purpose of AVIWG

- **Ensure coordination of activities across the organization**
- **Identify opportunities for synergy**
- **Ensure all aspects of vaccine implementation are covered**
- **Identify gaps in research and activities**

# Adolescent Vaccination Implementation Plan

- **Overarching purpose:** To promote health and reduce diseases, disabilities and deaths among adolescents through effective delivery of immunizations and related immunization services.
- **Target population:** adolescents 11-21 years of age

## **6 Key Areas of Plan**

- **Effective strategies for implementation of vaccine recommendations**
- **Monitor vaccination coverage**
- **Communication, education, training, and partnerships**
- **Disease epidemiology and surveillance**
- **Vaccine safety**
- **Support adolescent vaccination providers, programs, and other stakeholders**

# Effective strategies

- **Goal:** Identify, evaluate, and support implementation of effective strategies to improve delivery of vaccines to adolescents
- **Strategies:**
  - Conduct research and program evaluation activities
  - Disseminate findings
  - Monitor uptake of interventions/activities and determine barriers to uptake



# **Current/Planned Activities**

- **2 studies of reminder/recall (NVPO SIVR funded)**
- **Impact of vaccine recommendations on delivery of Clinical Preventive Services**
- **Surveys to assess Physician KABs and practices**
- **2 studies evaluating feasibility of providing adol vax svcs in complementary settings**
- **Evaluation of adol vax svcs in Juvenile Detention Facilities**
- **Evaluation of vax svc in Retail Based Clinics (NVPO SIVR funded)**

## **Current/Planned Activities (cont.)**

- **Implementation and evaluation of an adolescent school-based vaccination program**
- **Evaluate HPV uptake in 2 high-risk communities**
- **Evaluate adolescent health care utilization patterns**
- **Evaluation of strategies within the medical home (planned 2009)**
- **Evaluation of a text messaging program for reminder/recall (planned 2009)**

# Gaps

- **No planned projects to ‘catch up’ the 19-21 age group**
- **Limited resources to evaluate implementation of expanded flu recommendation**
- **Additional studies needed to determine if interventions proven effective for young children are appropriate for the adolescent population**

# Monitor Coverage

- **Goal:** Monitor vaccination coverage among adolescents
- **Strategies:**
  - Maintain and enhance methods to assess coverage at state and national levels
  - Support capacity of local and state programs to assess coverage
  - Analyze data to monitor trends and identify populations at risk

# Current/Planned Activities

- **NIS-Teen (13-17 years)**
  - Special studies to evaluate bias from excluding cell-phone only HH, exploring alternative sampling approaches
- **National Survey of Children's Health (Tdap, MCV4, HPV: 12-17 years)**
- **National Health Interview Survey (HepB, HPV: 18+ yrs)**
- **BRFSS (HPV: females 9-17 and 18-49 yrs)**
- **Immunization Information System Sentinel Sites**
- **Middle School vaccination coverage surveys**
  - Special study to validate school reports with provider-reported data, integrate with IIS

# Gaps

- **Need to evaluate ability to collect data for teens who receive vaccines at complementary settings**
- **Need to improve quality of IIS data for adolescents**
- **Currently no mechanism to assess college student's vaccinations**

# Communication, education, training, and partnerships

- **Goal:** Provide accurate information about adolescent vaccination recommendations
- **Strategies:**
  - Develop policy statements
  - Develop education materials
  - Conduct education and media campaigns
  - Collaborate with public/private partners
  - Develop strong relationship with media
  - Disseminate information and materials

# **Current/Planned Activities**

- **Updating ACIP General Recommendations with principles for adolescent vaccination**
- **On-line webinars, email/phone answering services for questions**
- **CDC national Pre-teen Vaccine Campaign:**
  - **Materials developed based on formative research**
  - **Includes flyers, posters, websites and PSAs in English and Spanish**
  - **Materials are being adapted for Korean, Vietnamese, and NA caregivers of 11-12 year olds (NVPO Unmet Needs funded)**



# **Current/Planned Activities (cont.)**

- **It's Their Turn! initiative:**
  - Initiative to support state and local health department's effort to promote adolescent immunization
  - Includes, flyers, posters, e-cards, podcasts, an array of letters
  - Materials are flexible and can be easily tailored to the each state's specific needs with key messages, logos, etc.
- **Collaborating with public/private organizations**
- **Providing technical assistance to immunization coalitions about adolescent immunization issues**
- **Ongoing distribution of press releases about adolescent immunization, radio tours and desk side briefings, preparing Q's&A's and talking points, coordinating press conferences**

# Gaps

- **Formative research with additional populations is needed**
  - Parents of teens, nurses, complementary providers
  - Additional materials development
- **Limited resources to evaluate campaign materials**
- **Limited staff**
- **Materials to educate providers about VAERS reporting is needed**

# Epidemiology and Surveillance

- **Goal:** Describe and monitor the epidemiology of vaccine preventable diseases among adolescents
- **Strategies:**
  - Conduct surveillance for VPD
  - Monitor vaccine efficacy, effectiveness, and duration of protection
  - Enhance laboratory capacity
  - Describe epidemiology of disease burden for future VPD
  - Conduct modeling and economic studies
  - Assist with outbreak response

# Current/Planned Activities

- **Pertussis:**
  - Emerging Infections Program: validating pertussis diagnosis
  - Enhanced pertussis surveillance in 2 locations
  - Effectiveness of Tdap during a school outbreak of pertussis
- **Meningococcal disease:**
  - ABCs: MCV4 vaccine effectiveness

# Current/Planned Activities (cont.)

- **HPV**
  - **NHANES: HPV DNA prevalence**
  - **Emerging Infections Program: CIN 2/3 monitoring**
  - **National Program of Cancer Registries: cervical cancer and CIN monitoring**
  - **Arctic Investigations Program (AIP): immunogenicity and duration of antibodies for HPV**
  - **VSD: HPV outcomes**
  - **STD Surveillance Network (SSuN): wart monitoring**

# Current/Planned Activities (cont.)

- **Influenza:**
  - Emerging Infections Program: influenza requiring medical care, flu vaccine effectiveness,
- **Varicella:**
  - NHANES: varicella susceptibility
  - Evaluation of the changing epi of varicella with the 2-dose recommendation
  - Impact of the 2-dose varicella vaccine recommendation on school outbreaks
  - Assessment of the long term protection of varicella vaccination
- **Measles/Mumps/Rubella:**
  - NHANES: measles/rubella susceptibility, mumps seroprevalence
  - Assessment of the long-term protection of measles and mumps components of the MMR vaccine

# **Current/Planned Activities (cont.)**

- **Economic studies:**
  - **Economic modeling of HPV**
  - **Conjoint analysis: assess preferences of HPV vaccine attributes**

# Gaps

- **Need to expand sentinel sites to capture population and monitor changes in disease epi and transmission patterns**
- **Limited resources for evaluating vaccine efficacy/effectiveness and duration of protection against serogroup specific disease**
- **Limited ability to conduct molecular subtyping and genetic testing to monitor changes in serogroup distribution**
- **Limited resources to improve laboratory capacity and improve diagnostic tests**



# Ensuring Vaccine Safety

- **Goal:** Promote optimal safety of adolescent vaccines
- **Strategies:**
  - Conduct surveillance for vaccine adverse events
  - Conduct research to test hypotheses and understand the pathophysiology of vaccine adverse events

# **Current/Planned Activities**

- **Research agenda is being developed to prioritize study areas**
- **Vaccine Adverse Event Reporting System (VAERS)**
- **Vaccine Safety Datalink (VSD)**
  - **Rapid Cycle Analysis for HPV, MCV4, Tdap, Influenza**
- **Clinical Immunization Safety Assessment (CISA) Network**

# Gaps

- Increase in licensed vaccines has led to an increase in VAERS reports – difficult to follow-up on cases in a timely manner
- Limited resources to determine if vaccine AEs are barriers to compliance to vaccine schedule
- Limited ability to collect demographic variables in VSD (e.g., race/ethnicity, pregnancy, oral contraceptive use)
- Limited resources to conduct genetic studies through CISA
- Limited ability to collect specimens for CISA studies

# Support immunization programs

- **Goal:** Support adolescent vaccination providers, programs, and other stakeholders to deliver vaccines to adolescents
- **Strategies:**
  - Collaborate with and provide technical assistance to immunization grantees
  - Monitor and support vaccination policy development

# **Current/Planned Activities**

- **Updating monograph of current state minor consent laws**
- **Surveying state IZ program managers and other policy makers to determine how they interpret and implement minor consent law (NVPO Unmet Needs funded)**
- **Collaborate with ASTHO to track immunization legislation**
- **Disseminate annual report of current school immunization requirements by state**

# Gaps

- **Evaluation to support requests for additional 317 funds and for expansion of VFC providers to vaccinate under-insured adolescents**

**Thank You!**

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